

Research Fellow

Ecole/Institution/Société:

THE UNIVERSITY OF ADELAIDE, Australia / Adelaide

Discipline:

Biomedical Engineering

Type d'emploi::

Full-time

Date de publication:

2022-02-27

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech

Research Fellow: Biomedical Engineering

Town/City: Adelaide

Position type: Full time

Salary: \$89,610

FULL DETAILS:

Reference number: ADE-507219

(Level A) \$89,610 per annum plus an employer contribution of up to 17% superannuation may apply.

Fixed term, full-time position available for 10 months, with the potential for further work dependent on project progress and additional funding.

Exciting Postdoctoral Researcher opportunity commencing as soon as possible.

This is a joint project between researchers and clinicians in the Adelaide Medical School and School of Electrical and Electronic Engineering. The aim of this project is the development of a standalone automated measurement computer aided design tool using plain pelvic radiographs to enable detection of early hip implant migration. This exciting collaborative project has the potential to help patients who have already had a hip replacement along with preventing harm to future patients. The project has a strong potential for commercialisation and involves the application of advanced image processing techniques and utilisation of machine learning algorithms to process 2D and 3D X-ray images to identify feature and image classification.

To be successful you will need:

A postgraduate degree (preferably PhD) in medical physics/biomedical engineering/applied mathematics.

Combined expertise in medical image analysis, medical data/image processing, and/or AI processing with proven multidisciplinary skills with the application of C++, Java, and Matlab/Simulink and the associated toolboxes and software development of Windows platform with graphical user interface (GUI) skills and user interface (UI) development.

Demonstrated ability to conduct independent research, including leading research and interest to guide and oversee postgraduate and honours students in the research area and supervise research support staff.

Strong interpersonal skills with the ability to communicate across disciplines and collaborate with industry.

Commitment to the principles of equity, diversity and inclusion, and ability to contribute to the diversity of the school community.

Enjoy an outstanding career environment

The University of Adelaide is a uniquely rewarding workplace. The size, breadth and quality of our education and research programs - including significant industry, government and community collaborations - offers you vast scope and opportunity for a long, fulfilling career.

It also enables us to attract high-calibre people in all facets of our operations, ensuring you will be surrounded by talented colleagues, many world-leading. Our work's cutting-edge nature - not just in your own area, but across virtually the full spectrum of human endeavour - provides a constant source of inspiration.

Our culture is one that welcomes all and embraces diversity consistent with our Staff Values and Behaviour Framework and our Values of integrity, respect, collegiality, excellence and discovery. We firmly believe that our people are our most valuable asset, so we work to grow and diversify the skills, knowledge and capability of all our staff.

We embrace flexibility as a key principle to allow our people to manage the changing demands of work, personal and family life. Flexible working arrangements are on offer for all roles at the University.

In addition, we offer a wide range of attractive staff benefits. These include: salary packaging; flexible work arrangements; high-quality professional development programs and activities; and an on-campus health clinic, gym and other fitness facilities.

Your faculty's broader role

The Faculty of Engineering, Computer and Mathematical Sciences is a thriving centre of learning, teaching and research in a vast range of engineering disciplines, computer science - including machine learning, high-level mathematics and architecture, planning and landscape architecture. Many of its academic staff are world leaders in their fields and graduates are highly regarded by employers.

If you have the talent, we'll give you the opportunity. Together, let's make history.

Click on the 'Apply Now' button to be taken through to the online application form. Please ensure you submit a cover letter, resume, and upload a document that includes your responses to all of the selection criteria for the position as contained in the position description or selection criteria document.

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